

Section 1. Registration Information

Source Identification

Facility Name:	Bumstead Storage Caverns
Parent Company #1 Name:	Plains LPG Services, L.P.
Parent Company #2 Name:	Plains All American Pipeline, L.P.

Submission and Acceptance

Submission Type:	Re-submission
Subsequent RMP Submission Reason:	5-year update (40 CFR 68.190(b)(1))
Description:	
Receipt Date:	20-Jan-2010
Postmark Date:	20-Jan-2010
Next Due Date:	20-Jan-2015
Completeness Check Date:	09-Feb-2010
Complete RMP:	Yes
De-Registration / Closed Reason:	
De-Registration / Closed Reason Other Text:	
De-Registered / Closed Date:	
De-Registered / Closed Effective Date:	
Certification Received:	Yes

Facility Identification

EPA Facility Identifier:	1000 0017 0398
Other EPA Systems Facility ID:	

Dun and Bradstreet Numbers (DUNS)

Facility DUNS:	167877278
Parent Company #1 DUNS:	
Parent Company #2 DUNS:	

Facility Location Address

Street 1:	7511 North Dysart Road
Street 2:	
City:	Glendale
State:	ARIZONA
ZIP:	85307
ZIP4:	
County:	MARICOPA

Facility Latitude and Longitude

Latitude (decimal):	33.544167
Longitude (decimal):	-112.341111
Lat/Long Method:	Interpolation - Photo
Lat/Long Description:	Plant Entrance (General)
Horizontal Accuracy Measure:	25
Horizontal Reference Datum Name:	North American Datum of 1983
Source Map Scale Number:	24000

Owner or Operator

Operator Name:	Plains LPG Services,L.P.
Operator Phone:	(403) 298-2100

Mailing Address

Operator Street 1:	Suite 1400, 607 8th Ave S.W.
Operator Street 2:	
Operator City:	Calagary
Operator State:	
Operator ZIP:	
Operator ZIP4:	
Operator Foreign State or Province:	Alberta
Operator Foreign ZIP:	T2P0A7
Operator Foreign Country:	Canada

Name and title of person or position responsible for Part 68 (RMP) Implementation

RMP Name of Person:	Brian Kilbreath
RMP Title of Person or Position:	Director of Operations
RMP E-mail Address:	brian.kilbreath@plainsmidstream.com

Emergency Contact

Emergency Contact Name:	Wayne Liles
Emergency Contact Title:	Facility Supervisor
Emergency Contact Phone:	(602) 359-0323
Emergency Contact 24-Hour Phone:	(866) 875-2554
Emergency Contact Ext. or PIN:	
Emergency Contact E-mail Address:	wayne.liles@plainsmidstream.com

Other Points of Contact

Facility or Parent Company E-mail Address:	
Facility Public Contact Phone:	
Facility or Parent Company WWW Homepage Address:	www.paalp.com

Local Emergency Planning Committee

LEPC:	Maricopa County LEPC
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Full Time Equivalent Employees

Number of Full Time Employees (FTE) on Site:	3
FTE Claimed as CBI:	

Covered By

OSHA PSM :	Yes
EPCRA 302 :	
CAA Title V:	
Air Operating Permit ID:	

OSHA Ranking

OSHA Star or Merit Ranking:

Last Safety Inspection

Last Safety Inspection (By an External Agency) Date:	03-Sep-2009
Last Safety Inspection Performed By an External Agency:	Arizona Corporation Commission

Predictive Filing

Did this RMP involve predictive filing?:

Preparer Information

Preparer Name:	Tony Puckett
Preparer Phone:	(713) 646-4587
Preparer Street 1:	333 Clay Street suite 1600
Preparer Street 2:	
Preparer City:	Houston
Preparer State:	TEXAS
Preparer ZIP:	77002
Preparer ZIP4:	
Preparer Foreign State:	
Preparer Foreign Country:	
Preparer Foreign ZIP:	

Confidential Business Information (CBI)

CBI Claimed:
Substantiation Provided:
Unsanitized RMP Provided:

Reportable Accidents

Reportable Accidents:	See Section 6. Accident History below to determine if there were any accidents reported for this RMP.
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Process Chemicals

Process ID:	1000015159
Description:	Propane/Butane Distrubtio
Process Chemical ID:	1000017748
Program Level:	Program Level 3 process
Chemical Name:	Propane
CAS Number:	74-98-6
Quantity (lbs):	410000000
CBI Claimed:	
Flammable/Toxic:	Flammable

Process ID:	1000015159
Description:	Propane/Butane Distrubtio
Process Chemical ID:	1000017747
Program Level:	Program Level 3 process
Chemical Name:	Butane
CAS Number:	106-97-8
Quantity (lbs):	190000000
CBI Claimed:	
Flammable/Toxic:	Flammable

Process NAICS

Process ID:	1000015159
Process NAICS ID:	1000015480
Program Level:	Program Level 3 process
NAICS Code:	42471
NAICS Description:	Petroleum Bulk Stations and Terminals

Section 2. Toxics: Worst Case

No records found.

Section 3. Toxics: Alternative Release

No records found.

Section 4. Flammables: Worst Case

Flammable Worst ID: 1000007891

Model Used:

EPA's RMP*Comp(TM)

Endpoint used:

1 PSI

Passive Mitigation Considered

Blast Walls:

Other Type:

Section 5. Flammables: Alternative Release

Flammable Alter ID: 1000007413

Model Used:

EPA's RMP*Comp(TM)

Passive Mitigation Considered

Dikes:

Fire Walls:

Blast Walls:

Enclosures:

Other Type:

Active Mitigation Considered

Sprinkler System:

Deluge System:

Water Curtain:

Excess Flow Valve:

Other Type:

Section 6. Accident History

No records found.

Section 7. Program Level 3

Description

This process includes all three caverns(one in butane service and two in propane service.) One 30,000 gal above ground storage tank in propane service and truck loading operations. The prevention program elements apply to all of them.

Program Level 3 Prevention Program Chemicals

Prevention Program Chemical ID:	1000014743
Chemical Name:	Butane
Flammable/Toxic:	Flammable
CAS Number:	106-97-8

Prevention Program Level 3 ID:	1000012413
NAICS Code:	42471

Prevention Program Chemical ID:	1000014744
Chemical Name:	Propane
Flammable/Toxic:	Flammable
CAS Number:	74-98-6

Prevention Program Level 3 ID:	1000012413
NAICS Code:	42471

Safety Information

Safety Review Date (The date on which the safety information was last reviewed or revised):	25-Mar-2009
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Process Hazard Analysis (PHA)

PHA Completion Date (Date of last PHA or PHA update):	25-Mar-2009
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The Technique Used

What If:	
Checklist:	
What If/Checklist:	
HAZOP:	Yes
Failure Mode and Effects Analysis:	
Fault Tree Analysis:	
Other Technique Used:	
PHA Change Completion Date (The expected or actual date of completion of all changes resulting from last PHA or PHA update):	31-Dec-2010

Major Hazards Identified

Toxic Release:	
Fire:	Yes
Explosion:	Yes
Runaway Reaction:	
Polymerization:	
Overpressurization:	Yes
Corrosion:	Yes
Overfilling:	Yes
Contamination:	
Equipment Failure:	Yes
Loss of Cooling, Heating, Electricity, Instrument Air:	Yes
Earthquake:	
Floods (Flood Plain):	
Tornado:	
Hurricanes:	
Other Major Hazard Identified:	Thermal burns

Process Controls in Use

Vents:	
Relief Valves:	Yes
Check Valves:	Yes
Scrubbers:	Yes
Flares:	Yes
Manual Shutoffs:	Yes
Automatic Shutoffs:	Yes
Interlocks:	Yes
Alarms and Procedures:	Yes
Keyed Bypass:	
Emergency Air Supply:	
Emergency Power:	
Backup Pump:	Yes
Grounding Equipment:	Yes
Inhibitor Addition:	
Rupture Disks:	
Excess Flow Device:	Yes
Quench System:	
Purge System:	
None:	
Other Process Control in Use:	

Mitigation Systems in Use

Sprinkler System:	
Dikes:	
Fire Walls:	
Blast Walls:	
Deluge System:	
Water Curtain:	
Enclosure:	
Neutralization:	
None:	
Other Mitigation System in Use:	underground caverns

Monitoring/Detection Systems in Use

Process Area Detectors: Yes
Perimeter Monitors:
None:
Other Monitoring/Detection System in Use:

Changes Since Last PHA Update

Reduction in Chemical Inventory:
Increase in Chemical Inventory:
Change Process Parameters:
Installation of Process Controls:
Installation of Process Detection Systems:
Installation of Perimeter Monitoring Systems:
Installation of Mitigation Systems:
None Recommended:
None: Yes
Other Changes Since Last PHA or PHA Update:

Review of Operating Procedures

Operating Procedures Revision Date (The date of the most recent review or revision of operating procedures): 01-Aug-2009

Training

Training Revision Date (The date of the most recent review or revision of training programs): 05-Jan-2010

The Type of Training Provided

Classroom: Yes
On the Job: Yes
Other Training:

The Type of Competency Testing Used

Written Tests: Yes
Oral Tests:
Demonstration:
Observation: Yes
Other Type of Competency Testing Used:

Maintenance

Maintenance Procedures Revision Date (The date of the most recent review or revision of maintenance procedures): 15-Jul-2009

Equipment Inspection Date (The date of the most recent equipment inspection or test): 04-Jan-2010

Equipment Tested (Equipment most recently inspected or tested):

Stantionary LEL Detectors

Management of Change

Change Management Date (The date of the most recent change that triggered management of change procedures): 05-Apr-2009

Change Management Revision Date (The date of the most recent review or revision of management of change procedures): 15-Mar-2008

Pre-Startup Review

Pre-Startup Review Date (The date of the most recent pre-startup review): 07-Oct-2009

Compliance Audits

Compliance Audit Date (The date of the most recent compliance audit): 26-Sep-2007

Compliance Audit Change Completion Date (Expected or actual date of completion of all changes resulting from the compliance audit): 31-Dec-2009

Incident Investigation

Incident Investigation Date (The date of the most recent incident investigation (if any)): 16-Sep-2007

Incident Investigation Change Date (The expected or actual date of completion of all changes resulting from the investigation): 31-Dec-2007

Employee Participation Plans

Participation Plan Revision Date (The date of the most recent review or revision of employee participation plans): 15-Mar-2008

Hot Work Permit Procedures

Hot Work permit Review Date (The date of the most recent review or revision of hot work permit procedures): 15-Feb-2009

Contractor Safety Procedures

Contractor Safety Procedures Review Date (The date of the most recent review or revision of contractor safety procedures): 31-Dec-2009

Contractor Safety Performance Evaluation Date (The date of the most recent review or revision of contractor safety performance): 04-Jan-2010

Confidential Business Information

CBI Claimed:

Section 8. Program Level 2

Section 9. Emergency Response

Written Emergency Response (ER) Plan

Community Plan (Is facility included in written community emergency response plan?): Yes

Facility Plan (Does facility have its own written emergency response plan?): Yes

Response Actions (Does ER plan include specific actions to be taken in response to accidental releases of regulated substance(s)?): Yes

Public Information (Does ER plan include procedures for informing the public and local agencies responding to accidental release?): Yes

Healthcare (Does facility's ER plan include information on emergency health care?): Yes

Emergency Response Review

Review Date (Date of most recent review or update of facility's ER plan): 08-Dec-2009

Emergency Response Training

Training Date (Date of most recent review or update of facility's employees): 08-Dec-2009

Local Agency

Agency Name (Name of local agency with which the facility ER plan or response activities are coordinated): City of Glendale Fire department

Agency Phone Number (Phone number of local agency with which the facility ER plan or response activities are coordinated): (623) 931-5600

Subject to

OSHA Regulations at 29 CFR 1910.38: Yes

OSHA Regulations at 29 CFR 1910.120:

Clean Water Regulations at 40 CFR 112:

RCRA Regulations at CFR 264, 265, and 279.52:

OPA 90 Regulations at 40 CFR 112, 33 CFR 154, 49 CFR 194, or 30 CFR 254:

State EPCRA Rules or Laws: Yes

Other (Specify):

Executive Summary

Introduction and Policies

Plains LPG Services, L.P., is committed to managing all operations in a manner that protects the environment and the health and safety of employees, customers, contractors and the public while fully complying with applicable laws and regulations. Plains management philosophy goals are achieved through the implementation of the environmental, health and safety management systems, by the personal commitments of employees and contractors, and by open communication with employees, customers, neighbors, and regulators.

The purpose of this Risk Management Plan (RMPlan) is to provide information about operations at the terminal, programs to prevent accidental chemical releases, emergency response plans in the event an accidental release should occur, the five-year accident history of the terminal, and planned changes to improve safety at the terminal.

Stationary Source and Regulated Substance

The Bumstead Storage Caverns is owned by Plains LPG Services, L.P. and operated by Plains Marketing Canada, L.P. At the caverns, propane and butane are received via pipeline and stored in pressure tank and caverns. Propane and butane are loaded into transport trucks from the above ground tanks only. Propane and butane are the only substances regulated under the Risk Management Program (RMP) that are present at the Bumstead Terminal in amounts above threshold quantity. Ethyl mercaptan is stored at the terminal; however, the amount stored is below threshold quantity. The terminal is classified as Program Level 3 under the regulation.

Accidental Release Prevention and Emergency Response Policies

The accidental release prevention and emergency response programs in place at the terminal are part of the high standards striven for by Plains. These high standards include:

- Operating in compliance with required environmental permits and regulations.
- Operating and maintaining the assets in such a manner that unintentional releases are minimized.
- Operating and maintaining assets in such a manner that the small releases associated with normal operation and maintenance will be minimized to the extent possible.
- Correcting non-compliance found during regular audits of the terminal.

Prevention Program

The Bumstead Storage Carvern Terminal is operating under the guidelines of the Occupational Safety and Health Administration (OSHA) Process Safety Management (PSM) Program. Analysis of the potential hazards of the process, training of employees, and emphasis on safety has helped avoid any serious chemical release accidents since Plains purchased the terminal. Part of this program has also involved identifying and taking steps to avoid potential accidental chemical releases.

Five-Year Accident History

The facility has had no accidents in the last five years.

Emergency Response Program

The terminal has developed an emergency response plan, which will be coordinated with local emergency response groups such as the Glendale Fire Department. Also involved in emergency response for the terminal would be the Maricopa LEPC, Glendale City Police, and the Arizona Corporation Commission. The terminal operator is responsible for coordinating the notifications required to initiate an emergency response. The Emergency Response Plan provides the essential planning for effectively protecting workers, the public, and the environment during emergency situations.

Planned Changes to Improve Safety

Compliance with the RMP Prevention Program coupled with the environmental, health and safety management systems, forms the framework for continuous safety improvement. Some of the key components of the safety program are:

Â· The Management of Change provisions ensure that the potential safety and health impacts of any change made to process chemicals, technology, equipment or procedures are considered.

Â· The Process Hazard Analysis (PHA) provisions serve as a tool to ensure timely evaluation of potential hazards, thereby leading to continual improvements in safety standards.

Â· The Mechanical Integrity provisions ensure that process equipment and instrumentation are designed, constructed, installed and maintained to minimize the risk of hazardous releases, thereby serving as an integral part of the safety program.

Specific actions that will be taken in the future to improve the level of safety at the terminal include:

Â· Compliance audits will ensure that the level of safety protection at the terminal is periodically being evaluated for improvements.

Â· An ongoing dialogue with the Glendale Fire Department will ensure a constant state of readiness to respond to any potential emergencies, as well as a means to implement improvements as the need develops.